

ABSTRACT OF THE DISCLOSURE

An electromagnetic device includes an outer casing, a shaft rotatably supported by the outer casing, and a motor main body disposed inside the outer casing, the motor main body having a stator and a rotor, the stator having coils each constructed by winding a conducting wire onto a bobbin, the coils being embedded in an outer molding, and cores being disposed so as to cover the outer molding, and the rotor being secured to the shaft, wherein the conducting wire of the coils is constructed by coating onto a copper wire an electrically-insulating layer composed of denatured polyimide resin which is a material resistant to permeation by sulfur compounds.